

## SUBSTITUTE SPECIFICATION

ABSTRACT OF THE DISCLOSURE

In a method and arrangement for authenticating a data processing system, first information is generated by a first data processing system and delivered to a second data processing system for a control unit. First data are 5 transmitted from the second data processing system to the first data processing system over a data line, the first data being generated by the second data processing system with aid of the first information and additional information contained in the second data processing system. Second data are generated by the first data processing system depending on the first data 10 and transmitted from the first data processing system to the second data processing system. Authentication information for authenticating the second data processing system is generated by the second data processing system with aid of the second data.

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